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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,549	01/17/2007	Guy Negre	0546-1084	3963
466 YOUNG & TH	7590 · 10/30/2007	EXAMINER		
745 SOUTH 23		NGUYEN, HOANG M		
2ND FLOOR - ARLINGTON,			ART UNIT	PAPER NUMBER
		•	3748	
			MAIL DATE	DELIVERY MODE
			10/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	•	Application No.	Applicant(s)			
Office Action Summary		10/579,549	GUY NEGRE			
		Examiner	Art Unit			
. <u> </u>	•	Hoang M. Nguyen	3748			
- Period for	 The MAILING DATE of this communication app Reply 	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
1)	Responsive to communication(s) filed on					
		-· action is non-final.				
<u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositio	on of Claims	•				
4) 🛛	Claim(s) <u>1-20</u> is/are pending in the application.		•			
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) ☐ Claim(s) is/are allowed.					
)⊠ Claim(s) <u>1-20</u> is/are rejected.					
7) 🗌 (☐ Claim(s) is/are objected to.					
8) 🗌 (8) Claim(s) are subject to restriction and/or election requirement.					
Applicatio	on Papers					
9)☐ The specification is objected to by the Examiner.						
	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ur	nder 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1	1. Certified copies of the priority documents have been received.					
2	2. Certified copies of the priority documents have been received in Application No					
3	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s	Isomorphisms	•				
) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/16/06, 5/16/06. 5) Notice of Informal Patent Application 6) Other:						
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Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Terms such as "preferably", "for example", "such as", "i.e.", are vague and indefinite and should not be used in claim language.

It's unclear if the phrase inside parentheses such as "(or other)" in claim 16 is part of the claims or not.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 4-6, 9, 11-20, are rejected under 35 U.S.C. 102(b) as being anticipated by US 6305171 (Negre et al).

Negre et al (from the same assignee as this application, so detailed description of the prior art is not necessary) discloses an external combustion engine comprising an air storage reservoir 23, a thermal heater 56, a combustion chamber 2, compressor 9, an expander comprising a piston 15, please note the top dead center of the exhaust chamber 4, there is a space as a permanent passage as claimed.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 7-8, are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 6305171 (Negre et al). Negre et al discloses all the claimed subject matter as set forth above in the rejection of claim 1, but does not disclose the four phases or the specific thermo chemical gas solid reaction process. However, Negre et al clearly shows that his systems is capable of performing four phases and the thermo chemical reaction as claimed because the system is similar to the claimed invention, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to utilize the system in Negre et al to have four phases and specific reaction process as claimed for the purpose of performing the same function, i.e., producing energy by using those processes.

Claim 10 is rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. 6305171 (Negre et al) in view of US 6568186 (Zaleski). Negre et al discloses all the claimed subject matter as set forth above in the rejection of claim 1, but does not disclose the computer control unit for the system. Zaleski discloses it's well known to use a computer controller 80 for controlling the operation of a combustion engine. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide a computer controller in the system in Negre et al as taught by Zaleski for the purpose of controlling the operation more effectively.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. DeFrancisco, McFee, and Ayala Vargas disclose external combustion engines having air reservoirs.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (571) 272-4861. The examiner can normally be reached on Tuesday--Friday from 12:30 AM to 10:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HOANG NGUYEN PRIMARY EXAMINER ART UNIT 3748

Hoang Minh Nguyen 10/27/2007